Computing

Infocomm Security Management
Information Technology
Common Infocomm Technology Programme
You dream of transforming the world into a better place. Or of making the cyberspace a safer place. You dream of harnessing technology to make a difference to people's lives. You want to build software applications like Instagram and Carousell to connect communities. You want to create revolutionary AI applications with voice and image recognition features to improve lives. You want to be a cyber-defender.

If these are your dreams, the School of Computing (SoC) can help turn your Dreams into Reality through the following IT diploma programmes:

• Common Infocomm Technology Programme (CITP) (S32)
• Diploma in Infocomm Security Management (DISM)(S54)
• Diploma in Information Technology (DIT)(S69) with specialisations/tracks in:
  • Software & Applications specialisation
    • Software Development Specialist track
    • User Experience (UX) Designer track
  • Data Science & Digital Analytics specialisation

If you are passionate about IT but not sure which course to choose? You might want to consider the newly launched Common Information Technology Programme (CITP).

The CITP will equip you with fundamental IT modules and expose you to the latest trends in the IT sector.

To find out more about the CITP, turn to Pg 4.

If you are interested in the latest technologies such as AI & Data Science or Augmented and Virtual Reality, the Diploma in Information Technology (DIT) is the course for you!

The new Data Science & Digital Analytics specialisation and Immersive Simulation Technology elective track, will give you the latest skills highly valued by industry giants such as Microsoft & Accenture.

Flip to Pg 12 for more info on the DIT course.

An IT curriculum that builds strong foundation and deep skills
Lay a strong foundation in coding and learn-to-learn by building complete end-to-end web-mobile applications. Develop the dexterity to go deep in your chosen field of study, from cyber security, software development and user experience design to AI & data science/digital analytics.

Innovative Teaching Approaches & Learning Spaces
Home your cyber defence skills through scenario-based simulated cyber-attacks at SP’s Cyber Wargame Centre and work on live social media projects at our Social Media Listening Centre.

Immersive Real World Learning
Pit your skills against the best in competitions, join meet-ups to find like-minded fellows and earn industry certifications.

Get real-life work experience through our 22 weeks of internship and develop solutions to real-world problems through SP’s SMART Campus, Data Science and Analytics Centre, Interactive Experience Technology Centre, and more.

Come. Journey with us. Turn your Dreams into Reality!
INFOCOMM TECHNOLOGY PROGRAMME

Are you passionate about Information Technology (IT) but undecided about which IT course to take? The Common Infocomm Technology Programme (CITP) is designed to help you make an informed choice. At the end of Year 1 Semester 1, you will be able to make an informed choice in selecting one of the two IT courses that you wish to pursue:

- S69 Diploma in Information Technology (DIT)
- S54 Diploma in Infocomm Security Management (DISM)

**ENTRY REQUIREMENTS**

2019 JAE ELR2B2: 15
Aggregate Type: ELR2B2-C

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- Biology
- Biotechnology
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- Creative 3D Animation
- Design & Technology
- Electronics / Fundamentals of Electronics
- Food & Nutrition
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

**COURSE HIGHLIGHTS**

The programme offers:

- fundamental IT modules to give you an insight into what interests you
- common foundational modules and comprehensive exposure to various areas of IT through the Infocomm Professional Seminars.
- curriculum which includes IT career guidance to prepares graduates for upcoming trend in IT sectors industry.
FURTHER STUDIES
You can pursue an IT degree programme at a local or foreign university.

CAREER OPTIONS
To be streamed to either DISM or DIT course after one semester in SP.

FURTHER STUDIES
You can pursue an IT degree programme at a local or foreign university.

COURSE MODULES
The common first semester will lay the foundation for programming and computing for both Diploma in Infocomm Security Management (DISM) and Diploma in Information Technology (DIT) courses.

This program will allow you to have more time to explore your interests in the first semester and make an informed decision on preferred IT-related course to pursue later.

Through the Education & Career Guidance activities, you will then learn to develop your portfolios and gain insights into the respective job roles and industries in the IT sectors.

FIRST YEAR (SEMESTER 1)
- Communicating for Project (Proposal) Effectiveness
- Critical & Analytical Thinking
- Education and Career Guidance 1
- Fundamentals of Computing
- Mathematics
- Fundamentals of Programming
- Front-End Web Development
- Mathematics
Anonymous hackers are attempting to gain access to classified information on a computer system and you need to stop them from carrying out this malicious attack. At the Cyber Wargame Centre, we create such realistic scenarios to prepare you for the REAL cyberthreats!

Technology is ever-present in our everyday activities, the need to guard against cyber threats is more critical than ever before.

Cyber Wargame Centre provides you with a real-time practice and learning environment through Cyber Wargame exercises – launch cyber-attacks, build cyber defences and delve into the world of forensics investigation.

To prepare you for both further studies and working life, the DISM curriculum covers the important areas of security technology, security management, information technology law and teamwork and communications.

Gain industry recognition through certifications such as EC-Council Certified Ethical Hacker, Certified Hacking Forensic Investigator, ThinkSECURE Organisational Systems Security Analyst and the Organisational Systems Wireless Auditor.

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COURSE MODULES

The Diploma in Infocomm Security Management is a three-year full-time programme.

FIRST YEAR
- Applied Cryptography
- Communicating for Project (Proposal) Effectiveness
- Computer Law and Investigation
- Critical & Analytical Thinking
- Education and Career Guidance 1
- Front-End Web Development
- Fundamentals of Computing
- Fundamentals of Programming
- Infocomm Security
- Linux Administration and Security
- Narrative Thinking
- Network Fundamentals
- Mathematics
- Programming in Python and C

SECOND YEAR
- Back-End Web Development
- Communicating for Professional Effectiveness
- Digital Forensics and Investigation
- Design Thinking for Social Innovation
- Education and Career Guidance 2
- Elective 1
- Elective 2
- Ethical Hacking and Defences
- Secure Coding
- Securing Microsoft Windows
- Security Policy and Incident Management
- Elective 1
- Infocomm Professional Seminar
- InfoSec Project Development and Management
- Internship Programme
- Malware Reverse Engineering

THIRD YEAR
- Elective 3
- Infocomm Professional Seminar
- InfoSec Project Development and Management
- Internship Programme
- Malware Reverse Engineering

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take Education and Career Guidance 1 (30 hours) in their first year. In their second year, students will take Education and Career Guidance 2 (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL modules as an elective.

Electives

The SP elective framework offers students options to pursue their passion and/or meet different career needs, and is an integral part of the holistic education we seek to provide to our students. The learning experiences of the elective framework help students in their development as self-directed, versatile, lifelong learners, which are essential in today’s volatile and changing societal as well as occupational landscape.

For a list of electives offered, please visit www.sp.edu.sg

CAREER OPTIONS
- Associate Security Analyst / Consultant
- Incident Investigator / Forensic Investigator
- Security / Systems Administrator
- Cyber Risk Analyst
- IT Auditor
- Security Engineer
- Applications Developer with IT security solution providers, auditing and consultancy firms, banking and financial institutions, public and private organisations that require IT security services.

FURTHER STUDIES

You can pursue further studies at local or foreign universities, with the latter granting direct entry into the second or third year of related undergraduate programmes in countries such as Australia, United Kingdom and the United States.

Daniel Ho
- Class of 2016, DISM Gold Medallist, recipient of the Lee Kuan Yew Award 2016, and currently a Public Service Commission scholarship holder

The DISM course has provided me with a holistic approach to manage cyber security, and a plethora of opportunities - both within the institution and in the industry - to explore and advance my technical arsenal beyond the syllabus and develop essential soft skills. Working closely with industry partners, I can graduate with industry relevant certifications and experiences.
DIPLOMA IN INFORMATION TECHNOLOGY

CREATE A SMART NATION WITH US
Information Technology (IT) is the driving force behind many digital transformations we see and use today, including the Smart Nation vision in Singapore; there continues to be a strong demand for IT professionals in Software Development and User Experience (UX) design, and in frontier technologies such as Artificial Intelligence & Data Science / Analytics and Immersive Simulation Technologies such as Augmented and Virtual Reality.

(DIT - S69)

FLEXIBLE COURSE OF STUDY
Choose any one of the three most in-demand areas of IT to focus on:
- Software & Applications - Software Development Specialist
- Software & Applications - Immersive Simulation Specialist
- Software & Applications - User Experience (UX) Design
- Data Science and Digital Analytics

AWESOME OPPORTUNITIES
We open doors for you to work with leading industry companies such as Microsoft, Accenture, GovTech, CrimsonLogic, KPMG, Singtel and Ubisoft Singapore through internship opportunities and project collaborations.

GET A HEAD START FOR LOCAL UNIVERSITIES
DIT offers an Advanced Math programme that will prepare you for your university programme. Moreover, you can pursue an IT related degree in both local and overseas universities with advanced standing.

DATA SCIENCE AND ANALYTICS CENTRE (DSAC)
Students immerse themselves in real world learning by doing real customer projects in the focal areas of Solution Development, AI & Data Science and Immersive Media. We work closely not only with SP’s Data Science and Analytics Centre (DSAC) and Immersive eXperience Technology Centre (iXTC) but also our strategic industry partners for projects.

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2019 JAE ELR2B2: 15
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- Electronics / Fundamentals of Electronics
- Food & Nutrition
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

SCHOLARSHIPS
- Centre for Strategic Infocomm Technologies (CSIT) Diploma Scholarship
- Infocomm Polytechnic (iPoly) Scholarship
- Industry Preparation for Pre-graduate (iPREP) Programme
- Singapore Polytechnic (SP) Scholarship

ENTRY REQUIREMENTS
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- Design & Technology
- Electronics / Fundamentals of Electronics
- Food & Nutrition
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)
The Diploma in Information Technology is a three-year full-time programme.

**FIRST YEAR**

**FIRST SEMESTER**
- Communicating for Project (Proposal) Effectiveness
- Critical & Analytical Thinking
- Education and Career Guidance 1
- Front-End Web Development
- Fundamentals of Computing
- Fundamentals of Programming
- Mathematics

**SECOND SEMESTER**
- Application Development Studio
- Communicating for Professional Effectiveness
- Data Engineering
- Design Thinking for Social Innovation
- Education and Career Guidance 2
- Elective 1
- Elective 2
- Enterprise Systems Development
- Software Engineering Practice
- 2 Specialist Electives

**THIRD YEAR**
- Elective 3
- Infocomm Professional Seminar
- Internship Programme
- Software Application Project

**SOFTWARE & APPLICATIONS SPECIALIZATION**
- Back-End Web Development
- Design for User Interaction
- Narrative Thinking
- Mobile Application Development
- 1 Specialist Elective

**SPECIALIST ELECTIVE TRACK**
- User Experience (UX) Design
- Digital Visual Design
- Infographics
- User Interface Design

**DATA SCIENCE & DIGITAL ANALYTICS SPECIALIZATION**
- Back-End Web Development
- Data Visualisation
- Narrative Thinking
- Programming for Data Science
- Statistics for Data Science

**SECOND YEAR**

**FIRST SEMESTER**
- AI & Machine Learning
- Communicating for Professional Effectiveness
- Data Engineering
- Data structures & Algorithm (AI)
- Deep Learning
- Design Thinking for Social Innovation
- DevOps & Automation for AI
- Education and Career Guidance 2
- Elective 1
- Elective 2
- Full Stack Web Development Project
- Mathematics for AI

**SECOND SEMESTER**
- Data Science & Digital Analytics Project
- Elective 3
- Infocomm Professional Seminar
- Internship Programme

**THIRD YEAR**
- 1 Specialist Elective

**SOFTWARE & APPLICATIONS SPECIALIZATION**
- Back-End Web Development
- Data Engineering
- Design Thinking for Social Innovation
- Education and Career Guidance 2
- Elective 1
- Elective 2
- Full Stack Web Developer
- Extended Reality (XR) Developer
- Games Programmer
- IT Consulting Analyst

**DATA SCIENCE & DIGITAL ANALYTICS SPECIALIZATION**
- Back-End Web Development
- Data Visualisation
- Narrative Thinking
- Programming for Data Science
- Statistics for Data Science

**FIRST STUDIES**

Quench your thirst for knowledge at local or foreign universities! Our graduates may receive module exemptions or advanced standings with relevant courses offered locally at NUS, NTU, SIT, SUTD and SMU. You can also gain direct entry into the second or third year of study in relevant undergraduate degree courses in countries including Australia and the United Kingdom.

**CAREER OPTIONS**
- Analyst Programmer
- Applications Developer
- Business Analyst
- Data Analyst / Engineer
- Digital Marketing Executive
- Graphics Programmer
- Information Systems Officer
- IT Consulting Analyst
- IT Support Personnel
- Software Engineer
- Systems Analyst
- UI Designer
- UX Designer
- Web Developer
- Data Engineer
- Software QA Engineer
- Technical Artist

**FURTHER STUDIES**

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For a list of electives offered, please visit www.sp.edu.sg

Azeem Arshad Vasanwala
Class of 2017, Tan Chin Chye Gold Medalist Institution Award, MD&A Gold Medalist, Microsoft Imagine Cup 2016 Winner, Singapore Computer Society IT Youth 2017 Finalist Award

I’ve always had a passion for IT, and being able to study the subject I loved made the journey fun and engaging. In DIT, I was taught solid skills and was mentored by lecturers who went above and beyond. My achievements are not my own, but a culmination of the guidance and work put in by the lecturers.
A former Technology Consultant (Information Security) at PricewaterhouseCoopers LLP, Daniel now performs penetration testing for Centurion Information Security Pte Ltd. Having attained a staggering seven professional certifications by the end of his final year at SP, Daniel continued to excel at the Queensland University of Technology, Australia where he was placed on the Dean’s List for Excellent Academic Performance and was awarded the Science and Engineering Faculty International Merit Scholarship.

MOHAMAD DANIEL BIN HAMID
Senior Consultant, Centurion Information Security Pte Ltd
DISM CLASS OF 2009

Edward is part of the team which is responsible for the training and development of Home Team officers as well as Home Team partner agencies in cyber security competencies. He is a Certified Ethical Hacker (CEH) and his final year project team clinched the SPInnovex Gold Award in Singapore Polytechnic. Edward graduated with a Bachelor of Engineering (Computer Science) at Nanyang Technological University in 2015. He co-authored a paper, on his NTU project that was awarded the title of Interesting FYP, published at the 6th Annual International Conference on Computer Science Education: Innovation & Technology (CSEIT 2015).

HENG AIK HWANG EDWARD
Senior Executive, Centre of Cyber Security Studies, Home Team Academy
DISM CLASS OF 2010

Emil works on the Critical Information Infrastructure Protection (CIIP) cybersecurity governance and practice programme in IMDA — ensuring the cybersecurity and assurance of Singapore’s Infocomm Media (ICM) sector. He received the National Infocomm Scholarship (NIS) in 2009 to pursue a Bachelor of Science in Computer Science and Master of Science in Information Security at Royal Holloway, University of London.

Emil is the founder and lead of Division Zero (Div0), a cybersecurity community group, and a Chapter Lead of Singapore’s Honeynet Project, an international non-profit research organisation dedicated to improving Internet security. In recognition of his contributions to Singapore’s cybersecurity ecosystem, he was awarded the Cybersecurity Awards 2018 (Professional category).

EMIL TAN
Assistant Manager, Infocomm Media Development Authority (IMDA)
DISM CLASS OF 2009

Yi Bing is part of the offensive security team ensuring a high level of security for DBS Bank applications through penetration tests and application security assessments. She is a certified ThinkSECURE Organizational Systems Security Analyst and also holds a Certificate of Completion in Mobile Device Forensics.

She has completed the Earn and Learn Programme, obtaining a Specialist Diploma in Cyber Security.

CHIN YI BING
Cyber Security Executive, DBS Bank
DISM CLASS OF 2016
As a Technical Director, Ikhwan manages workflow, server back end structure and multi-platform toolsets. He has released five games across different consoles and platforms: Tobe’s Vertical Adventure, Tobe’s Hookshot Adventure, Tiny Dice Dungeon, The Last Vikings, and most recently, ArmaGallant, on the PlayStation Store. During his time in SP, Ikhwan was a Microsoft StudentPartner and was awarded the Director’s Honour Roll three times.

MUHAMMAD IKHWAN BIN ZAINAL
Technical Director, Rock Nano Global Pte Ltd
DT CLASS OF 2009

As a Partner Technology Manager, Xiaoran helps partners overcome scaling and operational challenges and project-manage the partner onboarding implementation. He obtained a Bachelor Degree in Computing, Information Technology (with Distinction) from University of Wollongong, Australia in July 2012.

CHANG XIAORAN
Partner Technology Manager, Google Asia Pacific
DT CLASS OF 2010

Junjie manages a design team and was part of the Assassin’s Creed Designer Team that shipped high-quality AAA Games such as Assassin’s Creed 3, AC: Syndicate, AC: Black Flag and AC: Rogue to 20 million players worldwide. As Associate Lead Designer, he sets the benchmark of in-game level layout and reviews the works of other designers at different stages of the game development.

LIN JUNJIE
Lead Designer, Ubisoft Singapore
DT CLASS OF 2007

Victor leads the engineering team at Carousell to build and scale backend systems from Singapore to worldwide. He grew the engineering team from two to its present size of more than 30.

He obtained a Bachelor of Engineering (Computer Science) from Nanyang Technological University in 2013. He was awarded the DSO-URECA Research Award for NTU-DSO’s undergraduate research programme. Victor was the organiser for PyCon Singapore 2014 and 2015.

VICTOR NEO
Senior Engineering Manager, Carousell
DT CLASS OF 2008